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## Product Specification

### Whole Peeled Garlic Cloves

Date: 1<sup>st</sup> December 2010

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**PACK SIZE** 1 x 10kg

**ORIGIN:** China

**GENERAL** The product shall be prepared from fresh sound raw material that is free from all toxic residues and taints. The final product shall comply with all current U.K. and E.C. Food Legislation.

**INGREDIENTS** Garlic Cloves 100% Declare as: Garlic  
(*Allium sativum*)

**PROCESSING** The garlic bulbs are delivered and held in chill store at 2°C until required for processing. During processing the bulbs are broken apart, inspected, washed, the cloves are peeled, washed, blanched, cooled in chlorinated water, inspected, frozen (-18°C or below) and stored in bulk at -23°C or below.

**PACKING** During packing the peeled cloves are inspected before weighing and filling into blue poly lined cartons. The cartons are Best Before and Production date coded, check weighed, metal detected, palletised and stretch-wrapped before being returned to store at -23°C to await despatch to the UK at -18°C.

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**QUALITY CONTROL** Checks are carried out on the following: -

Processing: -	Raw material Final Product Temperature
Packing: -	Metal detection Check weighing Final product physical defect levels Organolepsis Case quantity Case sealing Case coding and print quality

**DEFECT TOLERANCES** Product shall be checked at least hourly against the following tolerances for defects: -

<u>Per 500g</u>	<u>Target</u>
Foreign Material	Nil
EVM	0.1% w/w
Discoloured Cloves	1% w/w
Split or Cut Cloves	12% w/w
Loose Skin	3
Adhering Skin	3

**DEFINITIONS OF DEFECTS**

**Foreign Material**

This includes any material not derived from the garlic plant or defined as EVM, such as insects, pieces of insects, wood, glass, stones, metal, sand, grit, plastic or any other material which will render the product unacceptable.

**Extraneous Vegetable Matter (EVM)**

Vegetable material derived from the garlic plant other than the garlic flesh e.g. pieces of leaf etc but does not include skin from the cloves. Vegetable material not from the garlic plant will be counted as Foreign material.

**Discoloured Cloves**

These are cloves that exhibit a pronounced colour different to the remainder of the sample.

**Split or Cut Cloves**

These are cloves that exhibit a split or cut in the surface of the clove greater than 25% of it's length.

**Loose Skin**

This includes pieces of the skin of the clove not attached to a clove.

**Adhering Skin**

This includes pieces of clove skin adhering to the clove.

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**ORGANOLEPSIS****COLOUR** Typical white to pale cream.**FLAVOUR** Characteristic delicate flavour of Chinese garlic**TEXTURE** Fairly uniform, firm but not woody cloves.

Average Sample

**MICROBIOLOGICAL**

Organism	Target	Maximum
T V C @ 30°C	$1 \times 10^4$	$1 \times 10^6$
Total Coliforms	$1 \times 10^2$	$1 \times 10^3$
E. coli	Nil	$1 \times 10^1$
Yeasts & Moulds	$1 \times 10^1$	$5 \times 10^1$
Salmonella	Absent in 25g	Absent in 25g
Listeria monocytogenes	Absent in 25g	$1 \times 10^2$

**ANALYTICAL**

N/A

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**WEIGHT CONTROL**

The product shall be packed to minimum weight.

**METAL DETECTION**

All cartons shall be passed through a metal detector. The system shall be tested at least hourly using 4.5mm ferrous and 4.5mm non-ferrous test pieces.

**CODING**

Best Before End shall be twenty four months following the month of packing e.g. if packed in 1st May 2010 then BEST BEFORE END MAY 2012 or BEST BEFORE 2012/05/01.

Production / Traceability Code Four figure International date code (Year number, Day number) plus factory identification code and shift code e.g. product packed 1 January 2010 = 0001 or 2010/01/01.

**CARTON LINERS**

Dark blue food grade polythene liner of a **minimum** thickness of 45µm.

**CARTONS**

Corrugated fibreboard of glued construction, no metal staples to be used. Shall be sealed using dark blue adhesive tape.

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**NUTRITIONAL INFORMATION**

This data conforms to the requirements of EC Council Directive 90/496/EEC

100g of uncooked garlic clove typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	98	McCance & Widdowson 6 <sup>th</sup> Edition
Energy - kJ	411	McCance & Widdowson 6 <sup>th</sup> Edition
Moisture	64.3g	McCance & Widdowson 6 <sup>th</sup> Edition
Carbohydrate	16.3g	McCance & Widdowson 6 <sup>th</sup> Edition
- as sugars	1.6g	McCance & Widdowson 6 <sup>th</sup> Edition
- as polyols	0.0g	McCance & Widdowson 6 <sup>th</sup> Edition
- as starch	14.7g	McCance & Widdowson 6 <sup>th</sup> Edition
Fat	0.6g	McCance & Widdowson 6 <sup>th</sup> Edition
- as saturates	0.1g	McCance & Widdowson 6 <sup>th</sup> Edition
- as mono unsaturates	Trace	McCance & Widdowson 6 <sup>th</sup> Edition
- as poly unsaturates	0.3g	McCance & Widdowson 6 <sup>th</sup> Edition
Protein	7.9g	McCance & Widdowson 6 <sup>th</sup> Edition
Fibre	4.1g	McCance & Widdowson 6 <sup>th</sup> Edition
Sodium	4mg	McCance & Widdowson 6 <sup>th</sup> Edition
Cholesterol	0.0g	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin A	Trace	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin B6	0.38Mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin B12	0.0µg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin C	17mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin D	0.0µg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin E	0.01mg	McCance & Widdowson 6 <sup>th</sup> Edition
Thiamin	0.13mg	McCance & Widdowson 6 <sup>th</sup> Edition
Riboflavin	0.03mg	McCance & Widdowson 6 <sup>th</sup> Edition
Niacin	0.3mg	McCance & Widdowson 6 <sup>th</sup> Edition
Folic Acid	5µg	McCance & Widdowson 6 <sup>th</sup> Edition
Biotin	0µg	McCance & Widdowson 6 <sup>th</sup> Edition
Pantothenic Acid	0mg	McCance & Widdowson 6 <sup>th</sup> Edition
Calcium	19mg	McCance & Widdowson 6 <sup>th</sup> Edition
Phosphorus	170mg	McCance & Widdowson 6 <sup>th</sup> Edition
Iron	1.9mg	McCance & Widdowson 6 <sup>th</sup> Edition
Magnesium	25mg	McCance & Widdowson 6 <sup>th</sup> Edition
Zinc	1.0mg	McCance & Widdowson 6 <sup>th</sup> Edition
Iodine	3µg	McCance & Widdowson 6 <sup>th</sup> Edition
Potassium	620mg	McCance & Widdowson 6 <sup>th</sup> Edition

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**GMO DECLARATION**

Does the product, or any of its ingredients contain any genetically modified material (whether viable or not)? YES / NO

Is the product or any of its ingredients not substantially equivalent as a consequence of the use of genetic modification? YES / NO

Is the product or any of its ingredients produced from, but not containing any genetically modified material? YES / NO

Have genetically modified organisms been used as processing aids or additives used in connection with the production of the food or any of its ingredients? YES / NO

Have genetically modified organisms been used to produce processing aids or additives but where such genetically modified organisms are not present in the processing aid as used in connection with the production of the food or any of its ingredients? YES / NO

Name: Alan Gosling Job Title: Technical Consultant

Signature:  Date: 1<sup>st</sup> December 2010

**IRRADIATION POLICY**

I confirm that the product supplied by Foodnet Limited under this specification has not undergone any irradiation treatment or process. I further confirm that no ingredient or processing aid used in conjunction with this product has undergone irradiation treatment.

Name: Alan Gosling Job Title: Technical Consultant

Signature:  Date: 1<sup>st</sup> December 2010

Where any answer is YES, see details below.

Product or Material	Details of Genetic Modification

I confirm I have made any necessary enquiries and obtained relevant written assurances from suppliers to verify the accuracy of the details provided above. I confirm the above data supplied is correct and can be used without reservation to advise customers.

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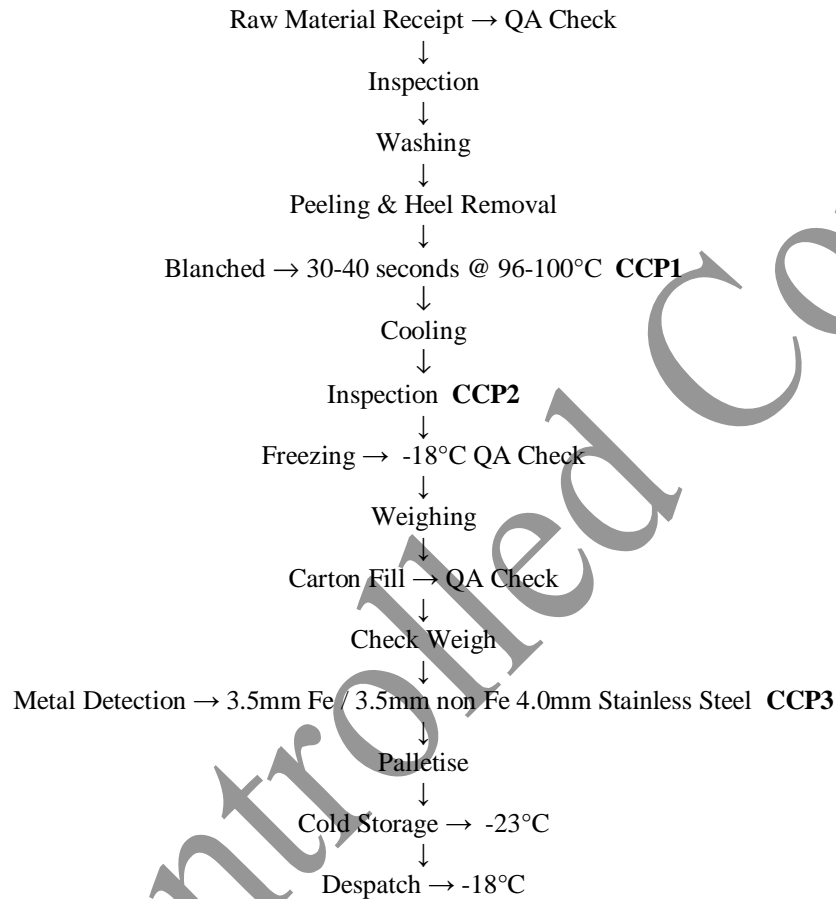
### **FOOD INTOLERANCE**

<b>Food Intolerance Data</b>		
Does the material supplied contain any of the following? (NO) Absent, (YES) Present		
<b>Allergen</b>	<b>NO / YES</b>	<b>Reason for presence if YES</b>
Milk & Milk Derivatives	NO	
Egg & Egg Derivatives	NO	
Animal Products (*)	NO	
Fish/Shellfish/Crustaceans/Molluscs	NO	
Cereals (**)	NO	
Gluten	NO	
Yeast/Yeast Extract	NO	
Soya/Soya Derivatives	NO	
Fruit & Fruit Derivatives	NO	
Beef & Beef Products	NO	
Pork & Pork Products	NO	
Lamb & Lamb Products	NO	
Poultry & Poultry Products	NO	
Legumes	NO	
Peanuts	NO	
Sulphite >10ppm	NO	
MSG	NO	
BHA / BHT	NO	
Benzoates	NO	
Glutamates	NO	
Azo & Coal Tar Dyes	NO	
Added Colour	NO	
Added Flavour	NO	
Preservatives	NO	
Antioxidants	NO	
Added Salt	NO	
Nuts/Nut Oils	NO	
Caffeine	NO	
Sesame Products	NO	
Garlic	YES	100% peeled garlic
Poppy Seeds	NO	
Mustard	NO	
Celery/Celariac	NO	
Lupins	NO	
*Including any product derived from slaughtered animals, e.g. gelatine, rennet		
**Including wheat, corn, barley, rye, oats, etc.		
Is the material suitable for:		
Vegetarians?	Y / <del>N</del>	
Vegans?	Y / <del>N</del>	
Kosher?	<del>Y</del> / N	
Halal?	<del>Y</del> / N	
Organic?	<del>Y</del> / N	

### **FOOD ADDITIVES**

<b>E. Number</b>	<b>Name</b>	<b>In Which Ingredient</b>	<b>Function in Ingredient</b>	<b>Function in Final Product</b>	<b>% In Final Product</b>
None					

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**PROCESS INFORMATION****PROCESS FLOW CHART****PEELED GARLIC****CRITICAL CONTROL POINTS:**

to include time / temperature / frequency / target and sensitivity of all process steps.

CCP Number	Process Step	Controls in place
CCP1	Blanched to minimise microbiological loading. Hourly checks.	Calibrated blancher temperature recorder.
CCP2	Inspection of the product. Continuous control	To remove foreign material via manual inspection.
CCP3	Metal detector efficiency. Hourly checks.	Testing of detector using certified test pieces of 3.5mm Ferrous and 3.5mm non Ferrous and 4.0mm Stainless Steel.

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## **COSHH Data For Frozen Vegetables**

Treat as you would any frozen material i.e. if engaged in prolonged handling of the vegetables wear gloves.

Care should be used when lifting full cases of frozen vegetables.

There are no other perceived COSHH implications regarding the use of frozen vegetables.

**THE CONTENTS OF THIS SPECIFICATION ARE CONFIDENTIAL TO FOODNET LTD AND THE CUSTOMER, AND MAY NOT BE DISCLOSED TO ANY OTHER PARTY.**

Signed on behalf of Foodnet Ltd:-

Name: Alan Gosling

Job Title: Technical Consultant

Signature: 

Date: 1<sup>st</sup> December 2010

Signed on behalf of the Customer:-

Name:

Job Title:

Signature:

Date:

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